

Amendments to the Claims are as follows:

1. (Previously Presented) A method for one-piece injection moulding of a soft needle catheter used together with an introducer needle comprising a hub and a tube-shaped flexible part, comprising the steps of:

feeding a molten polymer into a mould comprising a core defining a cavity comprising a hub cavity and a tube-shaped cavity, said core having a cone-shaped part and a cylindrical part forming the interior of the catheter;

removing the core from the catheter; and

removing the catheter from the mould;

wherein the cone-shaped part of the core forms at least a part of the hub cavity and extends into the tube-shaped cavity causing the interior of the tube-shaped flexible part to be at least partially cone shaped.

2. (Original) A method according to claim 1, wherein the catheter is cured to its final state in the mould.

3. (Previously Presented) A method according to claim 1, wherein the molten polymer is supplied to the mould via at least two inlets.

4. (Previously Presented) A method according to claim 1, wherein the inlets are placed at the hub forming part of the mould.

5. (Previously Presented) A method according to claim 1, wherein the mould separates along the axis of the tube-shaped part.

6. (Previously Presented) A method according to claim 1, wherein the mould separates perpendicular to the tube-shaped part and at or just below the hub.

7. (Currently Amended) A method according to claim 1, wherein the polymer is chosen from polyester ethers, ~~ECDEL~~, styrene based TPE, olefin

based TPE, urethane based TPE, ester based TPE, amid based TPE
polyolefines and silicone rubbers.

8. Cancelled.

9. (Previously Presented) A method according to claim 1, wherein the polymer has a shore between 40 and 60D.

10. (Previously Presented) A method according to claim 1, wherein a plurality of polymers are used.

11. (Currently Amended) A soft needle catheter used together with an introducer needle comprising a hub and a tube-shaped flexible part having a first end and a second end, the hub and the tube-shape flexible part being in one piece and being connected at the first end of the tube-shaped flexible part, wherein the interior of the tube-shaped part includes a cone-shaped part and a cylindrical part, the cylindrical part being placed at the second end of the tube-shaped flexible part and wherein the soft needle catheter is injection moulded according to the method of claim 1.

12. (Previously Presented) A soft needle catheter according to claim 11, wherein the hub is fitted with means for assisting the removal of the catheter from the patient.

13. (Previously Presented) A soft needle catheter according to claim 11, wherein the hub is fitted with at least one carving.

14. (Previously Presented) A soft needle catheter according to claim 11, wherein the hub has means for sealing the hub to a drug delivery device, said means being provided on the outside of the hub wherein said means is selected from the group consisting of: at least one packing, rim, fin, and a hub with a cone shaped exterior having a size suitable to fit into a cone shaped cavity of a drug delivery device.

15. (Previously Presented) A soft needle catheter according to claim 11, wherein the tube-shaped part of the soft needle catheter has a ratio between the cylindrical part and the cone-shaped part in the range from 10:1 to 1:40.

16. (Previously Presented) A soft needle catheter according to claim 11, wherein the cylindrical part is 1.5 mm long.

17. (Previously Presented) A soft needle catheter according to claim 11, wherein the cylindrical part is rounded.

18. (Currently Amended) A soft needle catheter according to claim 11, wherein the polymer is chosen from polyester ethers, ECDEL, styrene based TPE, olefin based TPE, urethane based TPE, ester based TPE, amid based TPE polyolfines and silicone rubbers.

19. Cancelled.

20. (Previously Presented) A soft needle catheter according to claim 11, wherein the catheter comprises a plurality of polymers.

21. Cancelled.

22. Cancelled.

23. (Previously Presented) The method of claim 3, wherein the inlets are placed symmetrically around the axis of the core.

24. (Previously Presented) The soft needle catheter of claim 12, wherein the means is selected from a flap, a rim or a groove.

25. (Previously Presented) The soft needle catheter of claim 13, wherein the hub comprises two carvings placed opposing each other.

26. (Previously Presented) The soft needle catheter of claim 11, wherein the tube-shaped part of the soft needle catheter has a ratio between the cylindrical part and the cone-shaped part in the range from 5:1 to 1:30,

27. (Previously Presented) The soft needle catheter of claim 11, wherein the tube-shaped part of the soft needle catheter has a ratio between the cylindrical part and the cone-shaped part in the range from 2:1 to 1:20.

28. (Previously Presented) The soft needle catheter of claim 11, wherein the tube-shaped part of the soft needle catheter has a ratio between the cylindrical part and the cone-shaped part in the range from 1:1 to 1:15.